

Use Attainability Analysis
for
WBID 0401 Sni-a-Bar Creek

Submitted by
SES Inc.
to
Missouri Department of Natural Resources
Water Protection Program

Date received: November 14, 2007

Field Data Sheets for Recreation Use Stream Surveys

Data Sheet A - Water Body Identification

I. Water Body Information (For water body being surveyed)

Water Body Name (from USGS 7.5' quad):	Sni-A-Bar Creek		
Missouri Water Body Identification (WBID) Number:	401		
8 digit HUC code:	10300101	County:	Jackson
Upstream Legal Description (from Table H):	T47N	R29W	Sec 5
Downstream Legal Description (from Table H):	T48N	R29W	Sec 30
Number of sites evaluated:	3		
List all site numbers, listed consequently upstream to downstream:			
1, 2, 3			

Site Locations Map(s): Attach a map of the entire segment with assessment sites clearly labeled.
Mark any other items that may be of interest.

II. Facility Information (list all permitted discharges to the water body segment)

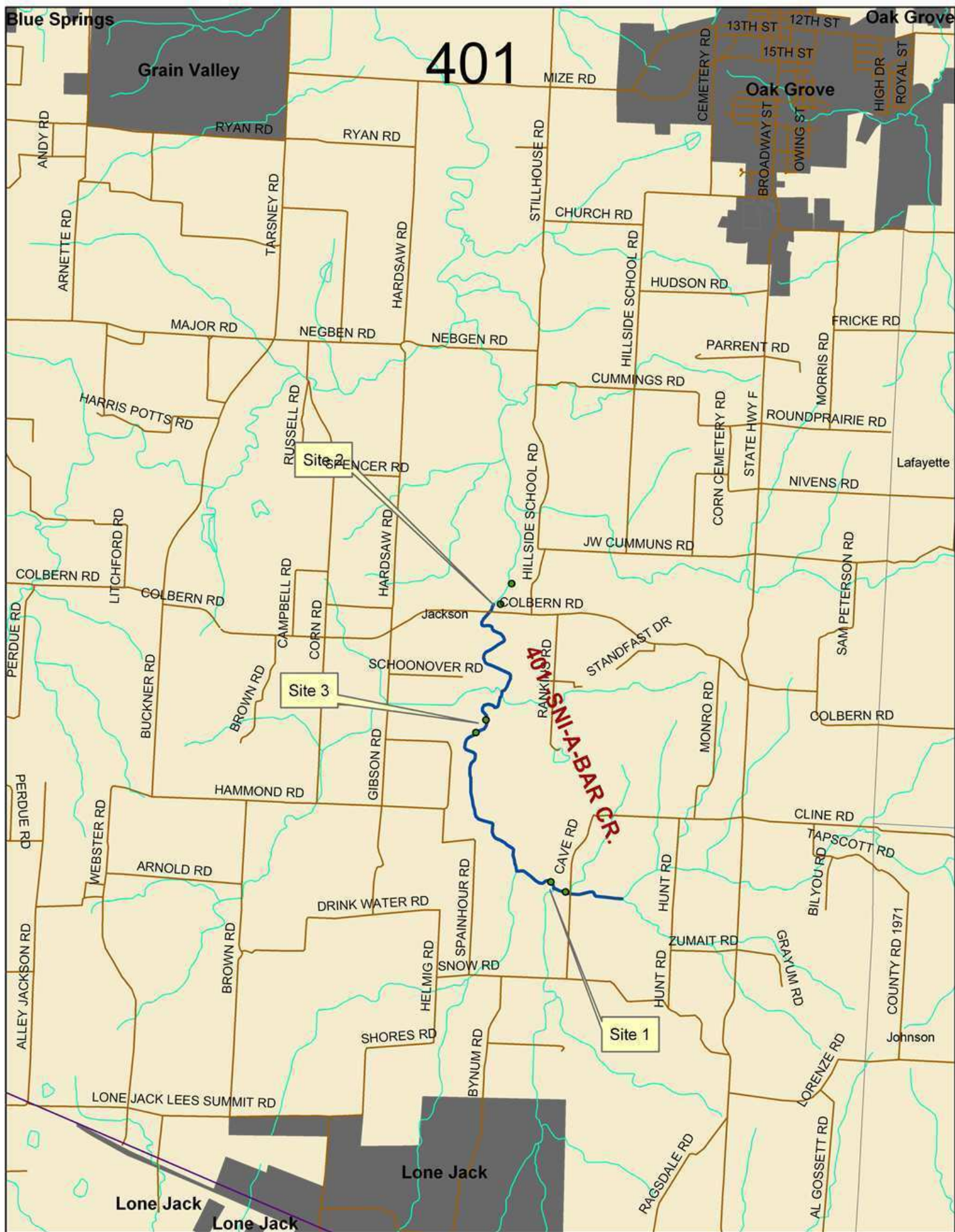
Facility Name(s) and Permit Number(s):	
	Lone Jack WWTP MO0123579

III. UAA Surveyor (please print legibly)

Name of Surveyor:	Gilisa Gould	Telephone Number:	9.13.307.0054
Organization/Employer:	SES, Inc.		

Please verify that you have completed all sections, checked all applicable boxes, and that the form is complete.

Signed: gilisa gould **Date:** 11.07.07



WBID # 401
 Site # 1

Field Data Sheets For Recreational Use Stream Surveys

Data Sheet B-Site Characterization

Date & Time: 10.29.07	11:55	Site Location Description (e.g. road crossing):
Personnel: Gilisa Gould and Larissa Brown		Cave Rd.
Current Weather Conditions: clear		Facility Name: Lone Jack WWTP
Weather conditions for the past 10 days: 0.55 inches		Permit Number: MO0123579
Drought conditions?: No drought <input checked="" type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/>		

Site Location:

Location Coordinates (Universal Transverse Mercator Projection, In Meters)					
Site 01	Easting (UTM X):	Northing (UTM Y):	Horizontal Accuracy:	Meters	
	0399618	4307404		5.4	
Site 11	Easting (UTM X):	Northing (UTM Y):	Horizontal Accuracy:	Meters	
	0399441	4307528		5.4	

Photos:

Photo ID#	Photo Purpose	Photo ID#:	Photo Purpose	Photo ID#:	Photo Purpose
159	downstream, T1	160	upstream, T1	161	downstream, T11
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
162	upstream, T11				
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose

Uses Observed:

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water Skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe:				

WBID # 401
Site # 1

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B- Site Characterization (Continued)

Surrounding Conditions:

<input type="checkbox"/> City/County parks	<input type="checkbox"/> playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input checked="" type="checkbox"/> Rural Residential
<input type="checkbox"/> Campgrounds	<input type="checkbox"/> State parks	<input type="checkbox"/> National Forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkways
<input type="checkbox"/> Boating accesses	<input checked="" type="checkbox"/> Fence	<input type="checkbox"/> No trespass sign	<input type="checkbox"/> Steep Slopes	<input type="checkbox"/> Other:
Comments: none				

Evidence of Human Use:

<input type="checkbox"/> Roads	<input type="checkbox"/> Foot path/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Rope swings
<input type="checkbox"/> RV/ATV Tracks	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Livestock watering
comments/other: none				

Substrate:

% Cobble	% Gravel 60	% Sand 30	% Silt 10	% Mud/Clay	% Bedrock
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Aquatic Vegetation:

none

Water Characteristics:

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input type="checkbox"/> Other:
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input type="checkbox"/> Fine sediments	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:

WBID # 401
Site # 1

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization (continued)

Additional Stream Morphology: (Record isolated pools or other features identified during the survey that may support recreational uses)

Channel Feature	Distance from access location (m)	Width (m)	Length (m)	Median Depth (m)	Max Depth (m)

Comments: (Please record any additional comments here.)

none

Please verify that you have completed all sections, checked all applicable boxes, and that the form is complete.

Surveyor's Signature: gilisa gould Date of Survey: 10.29.07

Organization: SES, Inc. Position: field team leader

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C - Field Survey Results

Waterbody ID: <u>401</u> Site #: <u>1</u> Estimated Channel Incision: <u>2.0</u> (m) (height between low bank width and water) GPS Location - Easting (UTM X), Northing (UTM Y), Horizontal Accuracy Estimate (EPE / PDOP / FOM) 01 UTM X: <u>0399618</u> UTM Y: <u>4307404</u> +/- <u>5.4</u> (meters) 11 UTM X: <u>0399441</u> UTM Y: <u>4307528</u> +/- <u>5.4</u> (meters) Average Stream Width: <u>6</u> (meters) Length of Survey Segment: <u>150</u> (meters) (To determine Length of Reach) (20x average stream width) Field Staff: <u>Gilisa Gould and Larissa Brown</u>														Dissolved Oxygen					
														Date: <u>10.29.07</u>		Time: <u>11:55</u>			
														Dissolved Oxygen: <u>10.0</u> (mg/L)					
														Dissolved Oxygen: _____ (% sat)					
														Specific Cond: _____ (µS/cm)					
														Water Temperature: <u>9.1</u> (°C)					

Transect Cross-Section																						
	01		02		03		04		05		06		07		08		09		10		11	
Station	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)
Left Bank	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0.3	0.05	0.7	0.01	0.7	0.05	0.5	0.05	0.6	0.15	0.6	0.05	0.5	0.01	0.5	0.05	0.4	0.05	0.4	0.01	0.5	0.00
2	0.6	0.15	1.4	0.01	1.4	0.25	1.0	0.20	1.2	0.25	1.2	0.25	1.0	0.10	1.0	0.25	0.8	0.10	0.8	0.05	1.0	0.00
3	0.9	0.15	2.1	0.05	2.1	0.35	1.5	0.25	1.8	0.45	1.8	0.35	1.5	0.15	1.5	0.40	1.2	0.25	1.2	0.10	1.5	0.00
4	1.2	0.20	2.8	0.05	2.8	0.25	2.0	0.30	2.4	0.55	2.4	0.45	2.0	0.35	2.0	0.40	1.6	0.40	1.6	0.10	2.0	0.00
5	1.5	0.15	3.5	0.05	3.5	0.15	2.5	0.25	3.0	0.45	3.0	0.40	2.5	0.50	2.5	0.25	2.0	0.55	2.0	0.10	2.5	0.00
6	1.8	0.10	4.2	0.05	4.2	0.15	3.0	0.15	3.6	0.40	3.6	0.30	3.0	0.65	3.0	0.20	2.4	0.45	2.4	0.05	3.0	0.00
7	2.1	0.05	4.9	0.05	4.9	0.10	3.5	0.10	4.2	0.30	4.2	0.15	3.5	0.70	3.5	0.10	2.8	0.40	2.8	0.05	3.5	0.00
8	2.4	0.05	5.6	0.01	5.6	0.10	4.0	0.05	4.8	0.10	4.8	0.05	4.0	0.70	4.0	0.05	3.2	0.25	3.2	0.01	4.0	0.00
9	2.7	0.01	6.3	0.01	6.3	0.05	4.5	0.01	5.4	0.05	5.4	0.01	4.5	0.70	4.5	0.01	3.6	0.15	3.6	0.01	4.5	0.00
Right Bank	3.0	0.00	7.0	0.00	7.0	0.00	5.0	0.00	6.0	0.00	6.0	0.00	5.0	0.00	5.0	0.00	4.0	0.00	4.0	0.01	5.0	0.00
Feature Type (riffle, run, or pool)	pool		pool		pool		pool		pool		pool		pool		pool		pool		pool		pool	

Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width

GPS locations corresponds to Transect 01 and 11. Transects ordered in upstream to downstream order.

Depth measurements taken at 10 equally spaced locations along transect (determine by dividing wetted width by ten)

Mark dry depth measurements as 0; record actual measurements to 0.01 meter unless depth is too deep to measure (then record as > 1)

All measurements to be taken to the nearest 0.01 meter.

Signed: gilisa gould Date: 11.07.07

WBID # 401
 Site # 2

Field Data Sheets For Recreational Use Stream Surveys

Data Sheet B-Site Characterization

Date & Time: 10.29.07 1:10	Site Location Description (e.g. road crossing):
Personnel: Gilisa Gould and Larissa Brown	Colbern Rd.
Current Weather Conditions: clear	Facility Name: Lone Jack WWTP
Weather conditions for the past 10 days: 0.55 inches	Permit Number: MO0123579
Drought conditions?: No drought <input checked="" type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/>	

Site Location:

Location Coordinates (Universal Transverse Mercator Projection, In Meters)					
Site 01	Easting (UTM X):	Northing (UTM Y):	Horizontal Accuracy:	Meters	
	0398826	4310908		3.6	
Site 11	Easting (UTM X):	Northing (UTM Y):	Horizontal Accuracy:	Meters	
	0398961	4311155		6.0	

Photos:

Photo ID#	Photo Purpose	Photo ID#:	Photo Purpose	Photo ID#:	Photo Purpose
165	downstream, T1	166	upstream, T1	167	downstream, T11
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
168	upstream, T11				
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose

Uses Observed:

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water Skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe:				

WBID # 401
Site # 2

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B- Site Characterization (Continued)

Surrounding Conditions:

<input type="checkbox"/> City/County parks	<input type="checkbox"/> playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input checked="" type="checkbox"/> Rural Residential
<input type="checkbox"/> Campgrounds	<input type="checkbox"/> State parks	<input type="checkbox"/> National Forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkways
<input type="checkbox"/> Boating accesses	<input checked="" type="checkbox"/> Fence	<input type="checkbox"/> No trespass sign	<input type="checkbox"/> Steep Slopes	<input type="checkbox"/> Other:
Comments: none				

Evidence of Human Use:

<input type="checkbox"/> Roads	<input type="checkbox"/> Foot path/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Rope swings
<input type="checkbox"/> RV/ATV Tracks	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Livestock watering
comments/other: none				

Substrate:

% Cobble	% Gravel 40	% Sand 30	% Silt	% Mud/Clay 30	% Bedrock
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Aquatic Vegetation:

none

Water Characteristics:

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input type="checkbox"/> Clear	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input checked="" type="checkbox"/> Milky	<input type="checkbox"/> Other:
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input type="checkbox"/> Fine sediments	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:

WBID # 401
Site # 2

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization (continued)

Additional Stream Morphology: (Record isolated pools or other features identified during the survey that may support recreational uses)

Channel Feature	Distance from access location (m)	Width (m)	Length (m)	Median Depth (m)	Max Depth (m)

Comments: (Please record any additional comments here.)

none

Please verify that you have completed all sections, checked all applicable boxes, and that the form is complete.

Surveyor's Signature: gilisa gould Date of Survey: 10.29.07

Organization: SES, Inc. Position: field team leader

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C - Field Survey Results

Waterbody ID: <u>401</u> Site #: <u>2</u> Estimated Channel Incision: <u>3.0</u> (m) (height between low bank width and water) GPS Location - Easting (UTM X), Northing (UTM Y), Horizontal Accuracy Estimate (EPE / PDOP / FOM) 01 UTM X: <u>0398826</u> UTM Y: <u>4310908</u> +/- <u>3.6</u> (meters) 11 UTM X: <u>0398961</u> UTM Y: <u>4311155</u> +/- <u>6.0</u> (meters) Average Stream Width: <u>8</u> (meters) Length of Survey Segment: <u>160</u> (meters) (To determine Length of Reach) (20x average stream width) Field Staff: <u>Gilisa Gould and Larissa Brown</u>																Dissolved Oxygen						
Date: <u>10.29.07</u> Time: <u>1:10</u> Dissolved Oxygen: <u>8.5</u> (mg/L) Dissolved Oxygen: _____ (% sat) Specific Cond: _____ (µS/cm) Water Temperature: <u>13.5</u> (°C)																						
Transect Cross-Section																						
01		02		03		04		05		06		07		08		09		10		11		
Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0.8	0.40	0.8	0.30	0.7	0.35	0.9	0.15	1.2	0.30	0.7	0.05	0.8	0.05	1.0	0.10	1.2	0.05	1.0	0.60	0.6	0.01
2	1.6	0.60	1.6	0.55	1.4	0.55	1.8	0.35	2.4	0.75	1.4	0.10	1.6	0.10	2.0	0.25	2.4	0.25	2.0	0.90	1.2	0.05
3	2.4	0.85	2.4	0.75	2.1	0.55	2.7	0.40	3.6	0.90	2.1	0.15	2.4	0.25	3.0	0.50	3.6	0.40	3.0	0.80	1.8	0.10
4	3.2	0.85	3.2	0.85	2.8	0.55	3.6	0.40	4.8	1.00	2.8	0.10	3.2	0.30	4.0	0.55	4.8	0.30	4.0	0.70	2.4	0.10
5	4.0	0.70	4.0	0.60	3.5	0.50	4.5	0.50	6.0	1.00	3.5	0.10	4.0	0.30	5.0	0.55	6.0	0.25	5.0	0.65	3.0	0.01
6	4.8	0.55	4.8	0.50	4.2	0.40	5.4	0.50	7.2	1.00	4.2	0.20	4.8	0.30	6.0	0.55	7.2	0.15	6.0	0.60	3.6	0.00
7	5.6	0.40	5.6	0.45	4.9	0.30	6.3	0.40	8.4	1.00	4.9	0.20	5.6	0.25	7.0	0.55	8.4	0.15	7.0	0.50	4.2	0.05
8	6.4	0.20	6.4	0.30	5.6	0.20	7.2	0.30	9.6	0.50	5.6	0.05	6.4	0.20	8.0	0.40	9.6	0.10	8.0	0.30	4.8	0.01
9	7.2	0.15	7.2	0.05	6.3	0.10	8.1	0.15	10.8	0.20	6.3	0.05	7.2	0.10	9.0	0.15	10.8	0.05	9.0	0.05	5.4	0.01
Right Bank	8.0	0.00	8.0	0.00	7.0	0.00	9.0	0.00	12.0	0.00	7.0	0.00	8.0	0.00	10.0	0.00	12.0	0.00	10.0	0.00	6.0	0.00
Feature Type	pool		pool		pool		pool		pool		pool		pool		pool		pool		pool		riffle	

Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width

GPS locations corresponds to Transect 01 and 11. Transects ordered in upstream to downstream order.

Depth measurements taken at 10 equally spaced locations along transect (determine by dividing wetted width by ten)

Mark dry depth measurements as 0; record actual measurements to 0.01 meter unless depth is too deep to measure (then record as > 1)

All measurements to be taken to the nearest 0.01 meter.

Signed: gilisa gould Date: 11.07.07

WBID # 401
 Site # 3

Field Data Sheets For Recreational Use Stream Surveys

Data Sheet B-Site Characterization

Date & Time: 10.29.07	14:20	Site Location Description (e.g. road crossing):
Personnel: Gilisa Gould and Larissa Brown	midway Sites 1 and 2	
Current Weather Conditions: clear	Facility Name:	Lone Jack WWTP
Weather conditions for the past 10 days: 0.55 inches	Permit Number:	MO0123579
Drought conditions?: No drought <input checked="" type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/>		

Site Location:

Location Coordinates (Universal Transverse Mercator Projection, In Meters)					
Site 01	Easting (UTM X):	Northing (UTM Y):	Horizontal Accuracy:	Meters	
	0398529	4309342		4.5	
Site 11	Easting (UTM X):	Northing (UTM Y):	Horizontal Accuracy:	Meters	
	0398648	4309497		8.5	

Photos:

Photo ID#	Photo Purpose	Photo ID#:	Photo Purpose	Photo ID#:	Photo Purpose
169	downstream, T1	170	upstream, T1	171	downstream, T11
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
172	upstream, T11				
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose

Uses Observed:

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water Skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe:				

WBID # 401
 Site # 3

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B- Site Characterization (Continued)

Surrounding Conditions:

<input type="checkbox"/> City/County parks	<input type="checkbox"/> playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Rural Residential
<input type="checkbox"/> Campgrounds	<input type="checkbox"/> State parks	<input type="checkbox"/> National Forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkways
<input type="checkbox"/> Boating accesses	<input checked="" type="checkbox"/> Fence	<input type="checkbox"/> No trespass sign	<input type="checkbox"/> Steep Slopes	<input type="checkbox"/> Other:
Comments: <div align="center">none</div>				

Evidence of Human Use:

<input type="checkbox"/> Roads	<input type="checkbox"/> Foot path/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Rope swings
<input type="checkbox"/> RV/ATV Tracks	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Livestock watering
comments/other: <div align="center">none</div>				

Substrate:

% Cobble	% Gravel	% Sand	% Silt	% Mud/Clay	% Bedrock
	30	30	10	30	

Aquatic Vegetation:

none

Water Characteristics:

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input type="checkbox"/> Clear	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input checked="" type="checkbox"/> Milky	<input type="checkbox"/> Other:
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input type="checkbox"/> Fine sediments	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:

WBID # 401
Site # 3

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization (continued)

Additional Stream Morphology: (Record isolated pools or other features identified during the survey that may support recreational uses)

Channel Feature	Distance from access location (m)	Width (m)	Length (m)	Median Depth (m)	Max Depth (m)

Comments: (Please record any additional comments here.)

none

Please verify that you have completed all sections, checked all applicable boxes, and that the form is complete.

Surveyor's Signature: gilisa gould Date of Survey: 10.29.07

Organization: SES, Inc. Position: field team leader

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C - Field Survey Results

Waterbody ID: <u>401</u> Site #: <u>3</u> Estimated Channel Incision: <u>3.0</u> (m) (height between low bank width and water) GPS Location - Easting (UTM X), Northing (UTM Y), Horizontal Accuracy Estimate (EPE / PDOP / FOM) 01 UTM X: <u>0398529</u> UTM Y: <u>4309342</u> +/- <u>4.5</u> (meters) 11 UTM X: <u>0398648</u> UTM Y: <u>4309497</u> +/- <u>8.5</u> (meters) Average Stream Width: <u>8</u> (meters) Length of Survey Segment: <u>160</u> (meters) (To determine Length of Reach) (20x average stream width) Field Staff: <u>Gilisa Gould and Larissa Brown</u>																Dissolved Oxygen						
Date: <u>10.29.07</u> Time: <u>14:20</u> Dissolved Oxygen: <u>7.7</u> (mg/L) Dissolved Oxygen: _____ (% sat) Specific Cond: _____ (µS/cm) Water Temperature: <u>12.2</u> (°C)																						
Transect Cross-Section																						
01		02		03		04		05		06		07		08		09		10		11		
Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0.7	0.10	0.8	0.30	0.7	0.10	0.9	0.40	1.0	0.20	1.0	0.20	1.0	0.10	0.9	0.20	0.7	0.05	0.8	0.60	0.7	0.20
2	1.4	0.20	1.6	0.45	1.4	0.30	1.8	0.75	2.0	0.35	2.0	0.55	2.0	0.25	1.8	0.40	1.4	0.40	1.6	0.85	1.4	0.40
3	2.1	0.30	2.4	0.60	2.1	0.50	2.7	1.00	3.0	0.40	3.0	0.70	3.0	0.45	2.7	0.65	2.1	0.65	2.4	1.00	2.1	0.45
4	2.8	0.25	3.2	0.90	2.8	0.85	3.6	0.95	4.0	0.60	4.0	0.65	4.0	0.60	3.6	0.70	2.8	0.70	3.2	1.00	2.8	0.60
5	3.5	0.25	4.0	0.90	3.5	0.90	4.5	1.00	5.0	0.50	5.0	0.40	5.0	0.80	4.5	0.70	3.5	0.65	4.0	1.00	3.5	0.45
6	4.2	0.30	4.8	0.75	4.2	0.80	5.4	1.00	6.0	0.40	6.0	0.45	6.0	0.10	5.4	0.60	4.2	0.60	4.8	1.00	4.2	0.30
7	4.9	0.25	5.6	0.50	4.9	0.80	6.3	1.00	7.0	0.35	7.0	0.35	7.0	0.80	6.3	0.70	4.9	0.40	5.6	1.00	4.9	0.30
8	5.6	0.20	6.4	0.45	5.6	0.70	7.2	0.55	8.0	0.25	8.0	0.35	8.0	0.50	7.2	0.40	5.6	0.30	6.4	0.60	5.6	0.15
9	6.3	0.10	7.2	0.05	6.3	0.55	8.1	0.30	9.0	0.05	9.0	0.05	9.0	0.25	8.1	0.15	6.3	0.10	7.2	0.20	6.3	0.05
Right Bank	7.0	0.00	8.0	0.00	7.0	0.00	9.0	0.00	10.0	0.00	10.0	0.00	10.0	0.00	9.0	0.00	7.0	0.00	8.0	0.00	7.0	0.00
Feature Type	pool		pool		pool		pool		pool		pool		pool		pool		pool		pool		pool	

Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width

GPS locations corresponds to Transect 01 and 11. Transects ordered in upstream to downstream order.

Depth measurements taken at 10 equally spaced locations along transect (determine by dividing wetted width by ten)

Mark dry depth measurements as 0; record actual measurements to 0.01 meter unless depth is too deep to measure (then record as > 1)

All measurements to be taken to the nearest 0.01 meter.

Signed: gilisa gould Date: 11.07.07

WBID# 0401



Site# 1 Photo ID# 159, Downstream T1



Site# 1 Photo ID# 160, Upstream T1



Site# 1 Photo ID# 161, Downstream T11



Site# 1 Photo ID# 162, Upstream T11

WBID# 0401



Site# 2 Photo ID# 165, Downstream T1



Site# 2 Photo ID# 166, Upstream T1



Site# 2 Photo ID# 167, Downstream T11



Site# 2 Photo ID# 168, Upstream T11

WBID# 0401



Site# 3 Photo ID# 169, Downstream T1



Site# 3 Photo ID# 170, Upstream T1



Site# 3 Photo ID# 171, Downstream T11



Site# 3 Photo ID# 172, Upstream T11